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Patent Plaques

JP2229832A2: PRODUCTION OF GRANULAR AND CELLULAR CHITOSAN DERIVATIVE HAVING SULFONE GROUP

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Country: **JP** Japan

Kind:

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Issued/Filed Dates: **Sept. 12, 1990** / March 3, 1989

Application Number: **JP1989000051091**

IPC Class: C08H 5/00; B01J 39/22;

Abstract: **Purpose**: To obtain a derivative capable of providing an exchange resin, etc., stable within the whole pH range and having a high strength and desired sulfone groups by dissolving low-molecular weight chitosan into an acidic aqueous solution, dripping the resultant solution into a basic solution, coagulating the above-mentioned aqueous solution, then acetylating, crosslinking and sulfonating the obtained product.
Constitution: Low-molecular weight chitosan is dissolved in an acidic aqueous solution and the obtained aqueous solution is then dripped into a basic solution and coagulated to a provide granular and cellular chitosan, which is subsequently acetylated with acetic anhydride, crosslinked with a diepoxy and then sulfonated with N,N'-dimenthylformamide-sulfur trioxide complex in the N,N'-dimenthylformamide to afford a granular cellular chitosan derivative having sulfone groups. The deacetylation degree is ≤40%, preferably ≤5% in the course of the reaction.
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Other Abstract Info: CHEMABS 114(04)026071W CAN114(04)026071W DERABS C90-323717 DERC90-323717

Foreign References: (No patents reference this one)

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